



Tire size	Circumference
40-559	26 x 1,5 2026 mm
44-559	26 x 1,6 2051 mm
47-559	26 x 1,75 2070 mm
50-559	26 x 1,9 2026 mm
54-559	26 x 2,00 2089 mm
57-559	26 x 2,125 2114 mm
37-590	26 x 1 3/8 2133 mm
32-620	27 x 1 1/4 2199 mm
40-622	28 x 1,5 2224 mm
47-622	28 x 1,75 2268 mm
40-635	28 x 1 1/2 2265 mm
37-622	28 x 1 3/8 2205 mm
20-622	700 x 20C 2114 mm
23-622	700 x 23C 2133 mm
25-622	700 x 25C 2146 mm
28-622	700 x 28C 2149 mm
32-622	700 x 32C 2174 mm

### Congratulations on your purchase!

With the **CICLOMASTER CM 4.4A** you have acquired a wireless electronic bike computer with state of the art electronics, the highest level of precision and it is weatherproof. As special features the **CM 4.4A** has an optional cadence measurement and an optional heart rate measurement (for this you need separately available accessories).

The Two in One-System: this allows you to use this cycle computer for two different bicycles and view the combined total values.

Please read this operating manual carefully.

#### Package content:

- CICLOMASTER CM 4.4A
- battery type CR 2032
- battery cap
- handlebar bracket
- transmitter
- cable ties for mounting
- spoke magnet

#### 1. Mounting

The handlebar bracket can be mounted on the handlebar and also on the stem.

**Bild A:** Mounting is possible on handlebar (Position A-1) or stem (Position A-2).

**Bild B:** For using it on the stem, change bracket mounting orientation from Position A to Position B.

Remove the protective tape.

Place the handle bar and fasten it with the cable ties.

**Bild C:** Mount the transmitter with cable ties on the fork (max. distance to the handlebar bracket max. 60 cm; best mounting on the right side, handlebar bracket and transmitter should be on the same side).

**Bild D:** Fix the magnet on a spoke so that it will face the mark on the transmitter. Adjust the magnet position and fine tune the sensor if necessary (distance between transmitter and magnet max. 3 mm).

**Bild E:** Rotate the CM 4.4A to 45 degrees left and install it into the bracket. Then rotate it 45 degrees right to lock it. To unlock, rotate 45 degrees to the left.

#### 1.1 Mounting of optional cadence-set (separately available)

Mount the handlebar as described above on the handlebar or on the stem.

Place the sensor on the cable on the left chain-brace in height of the crank with help of cable-ties so that it is still loose enough to be lined up. Mount the cadence-magnet (with help of a cable tie) on the inside of the crank. The distance between magnet and sensor should be max. 3 mm.

The magnets must point directly to the mark on the sensor. Now switch on the cadence measuring in the setting mode of the CM 4.4A (see chap. 2.1). Turn crank a few times to check if the mounting is correct. Now tighten the cable-ties.

#### 1.2 Putting on the heart rate transmission belt

**Warning:** whoever carries out sport should have a general medical check up on his/her general state of health - especially beginners, persons older than 35 years of age and anyone who has suffered from illnesses or injuries in the past. It is recommended that a doctor be consulted in any case in the presence of risk factors, such as smoking, high blood pressure, high cholesterol values, diabetes, lack of exercise and excess weight.

#### Pacemaker wearers should consult their doctor before using any heart rate measurement device!

The transmitter belt is hung in the elastic chest belt and fastened around the upper body. The transmitter (plastic part with the Ciclo-Logo) should lie over the middle of the upper stomach, immediately below the breastbone, so that the logo on the transmitter is legible (viewed from the front) (see illustration). The electrodes in the belt, to the right and left of the transmitter, must be in contact with the skin. Pull the belt tight so that it cannot slip and constant contact with the body is guaranteed during movement.

If the CM 4.4A fails to display any heart rate, it probably means that there is no contact between the skin and the electrodes. Moistening the electrodes and the underlying skin often helps. Best results are obtained if electrode gel is used (available from pharmacies).

Measurement of the heart rate is only possible if the transmitter belt is fitted correctly and the CM 4.4A is within the transmitter's reception range (max. 60 cm).

#### 2. Preparation

##### Inserting the battery

Insert battery type CR2032 with plus-pole facing up. Close battery cap with a coin, being sure not to over tighten. After inserting the battery the display will show normal mode.

(If nothing or incomprehensible signs appear in the display, press the AC-button on the rear of the computer with help of a ballpoint pen or a similar object. Attention: this will delete all values and setting).

##### 2.1 Settings

**Enter setting mode by pressing centre button for 3 seconds. Display shows 'SET BIKE1'.**

To quit setting mode press again centre button for 3 seconds in any setting.

(To change the display to german language, press left button short, display shows „LANGUAGE“. Press centre button to choose this function and then switch between "English" and "Deutsch" with right button. To store press left button and then get back to setting mode with short pressing of right button).

Though CM 4.4A can show german and english words, this manual shows both possible displays.

**The different setting modes can be shown by pressing right or left button, by pressing centre button the shown setting mode is chosen.**

##### Possible setting modes:

SET ALT / SET HOEHE  
SET BIKE1 / SET RAD1  
SET CLOCK / SET UHR  
SET HR / SET HF  
EXIT / ENDE  
LANGUAGE / SPRACHE

##### Each setting mode can have different setting possibilities.

**The following is valid for these settings: the blinking value can be changed with the right button, the value is stored by shortly pressing the left button and the next value blinks or the next value appears on the display.**

For a better reading in the following chapters the setting modes are **fat printed** and the settings **fat and italic**.

##### SET ALT / SET HOEHE

To define altimeter settings.  
To select, press the centre button.

##### ALTITUDE / HOEHE

To change current altitude  
Range: -300 to +6000m  
Set with right and left buttons, continue with left button  
Here you can change the altitude that is displayed, e.g. if you notice that the current altitude diverges from altitude shown in the display (e.g. if barometric pressure changes).

##### HOME OFF / HEIM AUS

To switch the home altitude on/off  
Default: OFF  
Set with right button, continue with left button  
Here you can switch the automatic reset off the home altitude value on/off

##### HOME ALT / HEIMHOEHE

Range: -300 to +6000m  
Set with left or right button, continue with left button  
CM 4.4A has got a barometric altimeter which adapts itself to temperature variations.  
Changes of barometric pressure (e.g. during the night) can cause variations of the indicated altitude in the display. To compensate for these variations you can set the altitude of your origin (e.g. starting point such as home). With each reset of the daily values (deletion) the current altitude will be reset to the adjusted altitude.

##### UNIT m

Set unit of measurement for altitude  
Default: m (meters)  
Here you can select whether the indication is meter (m) or feet (ft).

##### UNIT °C

Set unit of measurement for temperature  
Default: °Celsius  
Here you can adjust whether the indication is Celsius (C) or Fahrenheit (F).

##### SET BIKE1 / SET RAD1

Set of bike-specific values, e.g. total distance, circumference, unit and more for bike 1.  
Choose with centre button.  
To do these settings for bike 2, press right and left button short simultaneously in normal mode. CM 4.4A switches to bike 2, then enter again setting mode (display then shows SET BIKE2/SET RAD2).

##### DAY DST / TAGES-DST

Set of the daily distance  
Default: 000.00 km  
Range: 000.00 to 999.99 km or m  
Set with right and left button, store with left button.  
Here the daily distance can be adjusted, e.g. the point of starting a tour, when using a printed tour-guide.  
(This setting doesn't change the total distance. There only really ridden kilometres are counted).

##### TOT DST / GES. DST

Set of the total distance  
Default: 0000 km  
Range: 0 to 99999 km or m.  
Set with right and left button, store with left button.  
Here the total distance can be adjusted.

##### Wheel/Radumf.

Set of circumference  
Default: 2080 mm  
Range: 1000-3999 mm  
Set with right and left button, store with left button.  
Here the circumference can be adjusted.

##### The circumference of the wheel can be taken from the chart (Pict. G) or be measured by yourself.

Measuring the circumference of the wheel (for a more precise setting):  
Put a marking at the front-tire and on the ground (e.g. with chalk). Ride straight ahead exactly one turn of a tire (for a very exact measurement, check the pressure of the tire before getting on your bike) and mark this position on the ground. Now measure the exact circumference of the wheel between the two markings at the ground (in mm) – see pict. F.

##### Unit km bzw. Unit mi

Set of the measuring unit (kilometres or miles)  
Default: km  
Set with right button, store with left button  
Here you can choose whether the display should show kilometres (km/h) or miles (m/h).

##### CAD OFF/TRITT AUS

Switch cadence on/off (ON/AN – OFF/AUS)  
Default: OFF/AUS  
Set with right button, store with left button  
Here you can switch on/off the cadence measuring. To use this function you need the optional cadence-set (available at your local dealer).

##### SET CLOCK / SET UHR

Set of clock, date and clocktime-format.  
Choose with centre button

##### Time / Uhrzeit

Range: 00:00 to 23:59 or 12:00 to 11:59 A/P  
Set with right and left button, store with left button  
Here you can set the current clocktime. First you set the hours, then the minutes.

##### Year / Jahr

Set of the year  
Default: 2007  
Range: 2007 to 2099  
Set with right button, store with left button  
Here you can set the current year.

##### Month / Monat

Set of the month  
Default: 01  
Range: 01 to 12  
Set with right button, store with left button  
Here you can set the current month.

##### Day / Tag

Set of the day  
Default: 01  
Range: 01 to 31  
Set with right button, store with left button  
Here you can set the current day.

##### Clock / Zeit

Set of the clock format  
Default: 24  
Set with right button, store with left button  
Here you can select between 24- or 12-hour format (AM/PM).

##### SET HR / SET HF

Adjustments for the optional heart rate measurement. To use this function you need the optional heart rate-set (available at your local dealer).

##### HR OFF/ON / HF EIN/AUS

Switch heart rate on/off (ON/AN – OFF/AUS)  
Default: OFF/AUS  
Set with right button, store with left button  
Here you can switch on/off the heart rate measuring.

##### Fitness / Fitness

Adjustment of the fitness level.  
Default: 3  
Set with right button, store with left button.  
Range 1-4, corresponding to the following levels:

- 1 – poor fitness
- 2 – average fitness
- 3 – good fitness
- 4 – high fitness

Here you set your personal fitness level, necessary for the CICLOInZone<sup>®</sup>-calculation.

##### Sex / Geschlecht

Set with right button, store with left button.  
Change between  
m = male and f = female.  
The sex is needed for the CICLOInZone<sup>®</sup>-calculation and the calorie consumption.

##### Weight / Gewicht

Range: 20 to 220 kg  
Set with right and left button, store with left button  
The weight is needed for the CICLOInZone<sup>®</sup>-calculation and the calorie consumption.

##### Birthdate / Gebjahr

Adjust with right and left button, store with left button  
Default: 1960  
Range: 1920 to 2006  
The year of birth is necessary for the CICLOInZone<sup>®</sup>-calculation.

##### InZone

Here you can start the CICLOInZone<sup>®</sup>-calculation by short pressing of right and left button simultaneously (see also chap. 4 for CICLOInZone<sup>®</sup>).

In order to ignore the calculation, just press short left button.

In order to obtain an exact calculation of ones personal CICLOInZone<sup>®</sup> it is necessary to insert the personal data relative to fitness-level, sex, weight and birthdate.  
In order to calculate the CICLOInZone<sup>®</sup> position the chest belt correctly, take up a rest position (remain seated and relaxed) and start the CICLOInZone<sup>®</sup> calculation by short pressing of right and left button simultaneously.

The CM 4.4A will then start to time 5 minutes. During this time, stay seated, relaxed and calm, as the CM 4.4A will measure the minimum heart rate reached during this period (heart rate at rest) and will store this value for the subsequent calculation.  
After the 5 minutes the lower value of the calculated personal CICLOInZone<sup>®</sup> appears in the display.

##### Lower HR / untere HF

A lower heart rate limit can be set here or (after CICLOInZone<sup>®</sup>-calculation) the calculated value is shown.  
When the current heart rate is lower than this value, the CM 4.4A shows an arrow (▼) as an optical alarm.  
Range: 0 to 220 bpm  
Adjust with right and left button, store with left button

##### Upper HR / obere HF

An upper heart rate limit can be set here or (after CICLOInZone<sup>®</sup>-calculation) the calculated value is shown.  
When the current heart rate is higher than this value, the CM 4.4A shows an arrow (▲) as an optical alarm.  
Range: 0 to 240 bpm  
Adjust with right and left button, store with left button

##### Max HR / Max HF

Shows the maximum heart rate, calculated with CICLOInZone<sup>®</sup>.  
Range: 0 to 240 bpm  
Adjust with right and left button, store with left button

##### SET MISC

Here you can switch on the powerdown-mode or make a reset (delete all values).  
Choose with centre button

##### Powerdown / STROMSPAR

Switch on the powerdown-mode (e.g. before changing of the battery, to save the values).  
To switch it on, press right and left button short simultaneously, display fades out and CM 4.4A is in powerdown-mode. By short pressing of any button, CM 4.4A starts again and displays normal mode.

##### Reset / Löschen

Here you can delete all values (including the total values). For this press right and left button short simultaneously, display shows 'reset' and then normal mode.

If you only want to delete the day values, press right and left button for three seconds in normal mode.

#### 3. Functions

The CM 4.4A has an automatic start/stop when on the handlebar bracket.  
That means, 4 sec. after the first wheel turn the display shows normal mode and the current speed.  
1 minute after the last wheel turn (and without a button is pressed) the display changes to an "energy save" mode.  
If the wheel turns or a button is pushed, the computer will resume normal functions.  
CM 4.4A has got three modes: Bike 1, Bike 2, and Non-Bike mode.  
To switch from one mode to another, simultaneously press the right and left buttons briefly (switching is only possible if speed = 0).

The centre display shows ① or ② depending on whether the selected mode is Bike 1 or Bike 2. The Non-Bike mode doesn't show any figures in the display. The Non-Bike mode can be used for tours without a bike (e.g. with a dedicated wristlet). It only shows values which have nothing to do with the bike movements.  
The optional heart rate measuring works also without speed signal: when CM 4.4A is in normal mode (by pressing any button or auto-start), the heart rate receiver is automatically switched on.  
And as long as a heart rate is shown in the display, there is no automatically switching to sleep mode.

##### To reset all day values, press right and left button for three seconds.

The CM 4.4A has a three-lined display. In the centre part the current speed is shown, with a small ① or ② left beside, that shows whether the current values are valid for bike 1 or bike 2.  
To advance the **functions** of the **upper display**, press **right button**, to advance the functions of the **lower display** press **left button**.  
**Always short pressing of the centre button shows the sub-functions of the function in the lower display.**

##### Important for all subfunctions: display shows settings for 10 seconds before switching back to main function.

##### Functions of upper display:

###### TM – Daily Ride Time (pict. 2)

###### DST – Daily distance (pict. 4)

###### Altitude (pic. 3)

###### HR (♥)

###### Time (pict. 1)

##### Function of centre display:

###### SPD – Current Speed

Indicates the current speed in km/h or m/h.  
Range: 0 to 199,9 km/h or m/h  
An arrow on the left side of the display displays, whether the current speed is faster (arrow up) or slower (arrow down) than the current average speed.

##### Functions of lower display:

###### DST – Daily Distance (pict. 5)

Displays the distance ridden up to now in kilometres or miles..  
Range: 0 to 999,99 km or mi

###### TOT – total distance (pict. 6)

Sub-function of "Daily Distance"  
Displays the total distance ridden up to now in kilometres or miles (since last reset or battery change).  
Range: 0 to 99999 km or mi

###### ΣTOT – sum of total distance of bike 1 and bike 2 (pict. 7)

Sub-function of "Daily Distance"  
Displays the sum of the total distance ridden up to now in kilometres or miles (since last reset or battery change) of bike 1 and bike 2.  
Range: 0 to 199999 km or mi

##### Current Altitude (pict. 18)

Displays the current altitude (above sea level). The altitude is displayed in intervals of 1 meter. It is determined by the barometric pressure. For this reason, the altitude value is dependent on weather variations.  
Range: -300 to +6000 m or ft.

**Attention!** The altitude values will be added together from the signals received from the bike. In the Non-Bike mode they will be added together during the whole time.

##### Daily distance of altitude upwards (pict. 19)

Sub-function of „Current Altitude“  
Displays the altitude travelled upwards.  
Range: 0 to 20000 m or ft

##### Daily distance of altitude downwards (pict. 20)

Sub-function of „Current Altitude“  
Displays the altitude travelled downwards.

##### MAX – maximum altitude (pict. 21)

Sub-function of „Current Altitude“  
Displays maximum altitude of the tour.  
Range: -300 to +6000 m or ft.

##### TOT – total of altitude upwards (pict. 22)

Sub-function of „Current Altitude“  
Displays total distance of altitude upwards  
Range: 0 to 20000 m or ft

##### TOT – total altitude downwards (pict. 23)

Sub-function of „Current Altitude“  
Displays total distance of altitude downwards  
Range: 0 to 20000 m or ft

##### ΣTOT sum of altitudes from Bike 1 and Bike 2 (pict. 24)

(This function doesn't exist in No-Bike mode)  
Sub-function of „Current Altitude“  
Displays sum of altitude upwards.  
Range: 0 to 20000 m or ft

##### Current ascent / descent (pict. 25)

Displays current ascent or descent as percentage. The symbol on the left side of the display shows whether it is ascent (▲) or descent (▼). Range: 0 to 100%

**Attention:** For technical reasons, the current percentage will only be shown after 50 - 100 m. This depends also on your speed.

##### Average ascent (pict. 26)

Sub-function of „Current ascent/descent“  
Displays the average of the ascent values recorded so far.  
Range: 0 to 100%

##### Average descent (pict. 27)

Sub-function of „Current ascent/descent“  
Displays the average of the descent values recorded so far.  
Range: 0 to 100%

##### Maximum Ascent (pict. 28)

Sub-function of „Current ascent/descent“  
Displays the maximum of the ascent values recorded so far.  
Range: 0 to 100%

##### Maximum Descent (pict. 29)

Sub-function of „Current ascent/descent“  
Displays the maximum of the descent values recorded so far.  
Range: 0 to 100%

##### Ø – Average Speed (pict. 8)

Displays the current average speed in km/h or m/h.  
Range: 0 to 199,9 km/h or m/h (the decimal place is highranking)

##### MAX – Maximum Speed (pict. 9)

Sub-function of "Average speed"  
Displays the highest speed so far in km/h or m/h.  
Range: 0 to 199,9 km/h or m/h (the decimal place is highranking)

##### Temperature (pict. 30)

Displays current temperature  
Range: -10 to +50 °C or °F

**Attention:** If you carry the CM 4.4A on your body, the measured temperature can vary from outside temperature.

##### MIN – Minimum Temperature (pict. 31)

Sub-function of „Temperature“  
Displays minimum measured temperature.  
Range: -10 to +50 °C or °F

##### MAX – Maximum Temperature (pict. 32)

Sub-function of „Temperature“  
Displays maximum measured temperature.  
Range: -10 to +50 °C or °F

##### Time (pict. 10)

Displays the current time.  
Range: 00:00:00 to 23:59:59 or 12:00:00 to 11:59:59 AM/PM

##### Date (pict. 11)

Sub-function of "Time"  
Displays the current date (dd.mm.yy).

##### TM – daily ride time (pict. 12)

Displays the current daily ride time.  
Range: 0 to 9:59:59 h

##### T